**Curriculum Vitae**

**Kyle Evans**

*Environmental Scientist – Steelhead Recovery and Restoration*

**Professional Summary**

Over the past ten years, my professional experience has centered on researching and monitoring commercial and recreational fisheries in Southern California. This work was conducted for the California Department of Fish and Wildlife (CDFW) and the Pacific States Marine Fisheries Commission (PSMFC) and encompassed marine and freshwater ecosystems. In the last six years, my research has focused entirely on Southern California steelhead. I have worked to build and expand CDFW’s statewide Coastal Monitoring Program (CMP) for the monitoring of salmonids. My work developed monitoring methods specific to Southern California, overcame unique environmental challenges, and provided meaningful data on a federally endangered species observed in extremely low abundances. My work on CMP includes training and managing project staff, data collection and analysis, and drafting reports. In addition to my work on the CMP, I have been heavily involved with the review of restoration projects, monitoring proposals, and in-stream construction projects that may impact steelhead and their ecosystems.

**Education**

B.S., Marine Biology, California State University of Long Beach, June 2011

**Certification**

U.S. Fish and Wildlife Service - Principles and Techniques of Electrofishing

**Experience**

**December 2017-Present: *Environmental Scientist – Steelhead Recovery and Restoration,* California Department of Fish and Wildlife (CDFW)**

* Lead researcher conducting monitoring for federally endangered Southern California steelhead in Santa Barbara, Ventura, and Los Angeles counties as part of the CDFW statewide salmon and steelhead Coastal Monitoring Program (CMP).
* Hire, train, and manage seasonal and temporary staff conducting steelhead surveys, including, but not limited to, redd surveys, snorkel surveys, habitat typing, barrier assessment, Dual-Frequency Identification Sonar (DIDSON) methods, PIT tagging, and electrofishing.
* Conduct fish rescues and relocations of Southern California steelhead with partner organizations.
* Conduct habitat, barrier assessment, drought, and biological surveys in relation to Southern California steelhead throughout Southern California.
* Review and comment on fish passage design projects, restoration projects, Fish and Game Code permitting violations, grant applications, and habitat monitoring plans.
* Perform data collection, QA/QC, analysis, and reporting in line with project deliverables.
* Develop Southern California-specific salmonid monitoring protocols and strategies.
* Perform database development and testing in Access and MySQL
* Complete spatial data analysis and mapping in ArcGIS of all data collected by Pacific States Marine Fisheries Commission (PSMFC) and CDFW projects at the Santa Barbara CDFW field office.

**January 2015-December 2017: *Fisheries Biologist I – Southern California Steelhead Monitoring Program*, Pacific States Marine Fisheries Commission (PSMFC)**

* Performed protocol development, implementation, and database management of biological surveys, including redd and snorkel surveys.
* Developed Generalized Random Tessellation Stratified (GRTS) based sampling frame in ArcGIS for the Conception Coast and Ventura basin in collaboration with CDFW CMP researchers.
* Hired, trained, and led field crews on habitat, snorkel, redd, presence/absence, and drought surveys for Southern California steelhead within Santa Barbara and Ventura counties.
* Performed extensive identification and handling of amphibian and reptile species of special concern.
* Under the supervision of CDFW staff, assisted in aquatic invasive species removal.
* Operated DIDSON cameras in collaboration with CDFW’s CMP for salmon and steelhead.
* Wrote and submitted grant proposals for Southern California steelhead monitoring.

**October 2013-January 2015: *Fisheries Technician – California Cooperative Groundfish Survey*, PSMFC**

* Collected biological data on live federally managed species (including several rockfish species, sablefish, flatfish, skates, rays, and thornyheads).
* Performed data entry and QA/QC.
* Worked directly with the public and commercial fishermen as a government representative.

**June 2011-January 2015: *Scientific Aid*, CDFW**

* Barred Sand Bass Essential Fisheries Information study: collected blood and scale samples from live specimens; performed measurements, otolith extractions, and dissections.
* Estimated batch fecundity through hydrated oocyte and size class distribution method. Assisted with development and implementation of lab protocol.
* Bass Discard Study: collected biological data on kelp and sand bass following changes to fishing regulations to determine impacts on recreational anglers.
* Collaborated with researchers at Loyola Marymount University studying the use of portable vet ultrasounds for sex determination of California halibut.
* Commercial Fisheries Sampler (gill net, hook and line, and trawl commercial fishery): Assisted with species identification and handling live and dead fish of various sizes. Collected biological data (including scanning for implanted tags) on marine species managed by the State of California, including but not limited to California halibut, white seabass, and various flatfish species.

**Publications**

* California Fish and Game Journal, Volume 100, Spring 2014: Reproductive potential and spawning periodicity in barred sand bass (*Paralabrax nebulifer*) from the San Pedro Shelf, Southern California.

**Presentations and Posters**

* Tri-County Fish Team Technical Training, 2016. Southern California Steelhead Monitoring Through the Use of Dual Frequency Identification Sonar.
* The California Society for Ecological Restoration (SERCAL), 2019. Beyond Recovery: Restoration for the Future Southern California Steelhead Monitoring: Post Thomas Fire Challenges.
* Salmonid Restoration Federation, Steelhead Summit, 2018. The Current Status of Southern California Steelhead Monitoring.
* Southern California Academy of Sciences, 2012. Estimation of Batch Fecundity in Barred Sand Bass (*Paralabrax nebulifer*).
* California Natural Resources Agency (CNRA) GIS Day, 2015. Drought Monitoring and Steelhead Recovery in Southern California.
* Salmon Restoration Foundation 34th Annual Conference, 2016. Steelhead Habitat and Abundance in the Upper Ventura Basin during a Drought Year.
* American Fisheries Society, California Nevada Chapter, Annual Meeting, 2018. Locating Aquatic Refugia During Prolonged Drought in Santa Barbara and Ventura Counties.
* Salmon Restoration Foundation 37th Annual Conference, 2019. The Effects of the Thomas Fire on *Oncorhynchus mykiss* Habitat in Upper North Fork Matilija Creek.